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OM protein - protein search, using sw model

Run on: February 1, 2005, 14:23:28 ; Search time 147 Seconds
(without alignments)

594.776 Million cell updates/sec

Title: US-10-629-329A-2

Perfect score: 1322

Sequence: 1 MSGCDAGEGDCCSRRGAQD.....SMKXVGLDSOLPVGENGIV 242

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 1608061

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Published Applications At: *

1: /cgns_6/ptodata/1/pubcaa/US07_PUBCOMB.pep; *
2: /cgns_6/ptodata/1/pubcaa/US06_NEWPUB.pep; *
3: /cgns_6/ptodata/1/pubcaa/US06_NEWPUB.pep; *
4: /cgns_6/ptodata/1/pubcaa/US06_NEWPUB.pep; *
5: /cgns_6/ptodata/1/pubcaa/US07_PUBCOMB.pep; *
6: /cgns_6/ptodata/1/pubcaa/PCTUS_PUBCOMB.pep; *
7: /cgns_6/ptodata/1/pubcaa/US09_NEWPUB.pep; *
8: /cgns_6/ptodata/1/pubcaa/US08_PUBCOMB.pep; *
9: /cgns_6/ptodata/1/pubcaa/US09A_PUBCOMB.pep; *
10: /cgns_6/ptodata/1/pubcaa/US09C_PUBCOMB.pep; *
11: /cgns_6/ptodata/1/pubcaa/US09C_PUBCOMB.pep; *
12: /cgns_6/ptodata/1/pubcaa/US09_NEWPUB.pep; *
13: /cgns_6/ptodata/1/pubcaa/US10A_PUBCOMB.pep; *
14: /cgns_6/ptodata/1/pubcaa/US10B_PUBCOMB.pep; *
15: /cgns_6/ptodata/1/pubcaa/US10C_PUBCOMB.pep; *
16: /cgns_6/ptodata/1/pubcaa/US10D_PUBCOMB.pep; *
17: /cgns_6/ptodata/1/pubcaa/US10_NEWPUB.pep; *
18: /cgns_6/ptodata/1/pubcaa/US11_NEWPUB.pep; *
19: /cgns_6/ptodata/1/pubcaa/US60_NEWPUB.pep; *
20: /cgns_6/ptodata/1/pubcaa/US60_PUBCOMB.pep; *

Pred. No. 18 is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1222	100.0	242	15 US-10-629-329A-2	Sequence 2, Appli
2	1307	98.9	242	14 US-10-20-381-2	Sequence 2, Appli
3	1296	98.0	242	15 US-10-381-710-4	Sequence 4, Appli
4	1239.5	93.8	241	15 US-10-381-710-2	Sequence 4, Appli
5	1239.5	93.8	241	15 US-10-629-329A-4	Sequence 4, Appli
6	573.5	43.4	529	16 US-10-477-967-195546	Sequence 195546,
7	563	42.6	526	15 US-10-424-599-15770	Sequence 15770,
8	563	42.6	517	17 US-10-435-115-253163	Sequence 253163,
9	563	42.6	524	15 US-10-445-114-64486	Sequence 64486,
10	555	42.0	497	15 US-10-445-114-65135	Sequence 65135,
11	553	41.8	517	16 US-10-477-701-45914	Sequence 45914,
12	549	41.5	522	15 US-10-424-593-27317	Sequence 27317,
13	549	41.5	540	15 US-10-425-114-46271	Sequence 46271,

Query	Match	Score	1322;	DB	15;	Length	242;
Best Local Matches	242;	Similarity	100.0%;	Pred. No.	4.	6e-129;	
Conservative Matches	0;	Mismatches	0;	Indels	0;	Gaps	0;
Qy	1	MSGCDAGEGDCCSRRGAQDKEHPRYLIPELCKQFYHGLWMTGTTGGATSLKHGDEIYAP	60	Db	1	MSGCDAGEGDCCSRRGAQDKEHPRYLIPELCKQFYHGLWMTGTTGGATSLKHGDEIYAP	60
Qy	1	SGVQKERIQPEMFCDINEKDISGPSPSKLKKSQTPLFNAATMRGAGAVITHSKA	120	Db	1	SGVQKERIQPEMFCDINEKDISGPSPSKLKKSQTPLFNAATMRGAGAVITHSKA	120
Qy	1	AVMATLLFPGRERFKITHQEMIKGIKCTSGGYRYYDDMLVPIENTPEEGLKDRMAHA	180	Db	1	AVMATLLFPGRERFKITHQEMIKGIKCTSGGYRYYDDMLVPIENTPEEGLKDRMAHA	180
Qy	1	AVMATLLFPGRERFKITHQEMIKGIKCTSGGYRYYDDMLVPIENTPEEGLKDRMAHA	180	Db	1	AVMATLLFPGRERFKITHQEMIKGIKCTSGGYRYYDDMLVPIENTPEEGLKDRMAHA	180

CURRENT FILING DATE: 2003-09-16
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-381-710-4

Query Match 98.0%; Score 1296; DB 15; Length 242;
Best Local Similarity 98.8%; Pred. No. 2..3e-126;
Matches 239; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MSGCDAGEGDCSRRCGAQDKEHPRYLIPELCKQFYHLGWTGTCGGISLKHGDEIYIAP 60
Db 1 MSGCDAREGDCSRRCGAQDKEHPRYLIPELCKQFYHLGWTGTCGGISLKHGDEIYIAP 60

61 SGVQKERIOPEDMFVCDINEKDISGPSKLUKKSKQCTPLFMNAYTMRGAGAVIHTHNSKA 120
Db 61 SGVQKERIOPEDMFVCDINEKDISGPSKLUKKSKQCTPLFMNAYTMRGAGAVIHTHNSKA 120

Qy 1 AVMATLLPGREPKITHQEMIKIGKCTSGGYYRYDDMLVPIENTPEEKGLKDRMMAHA 180
Db 121 AVMATLLPGREPKITHQEMIKIGKCTSGGYYRYDDMLVPIENTPEEKGLKDRMMAHA 180

Db 121 AVMATLLPGREPKITHQEMIKIGKCTSGGYYRYDDMLVPIENTPEEKGLKDRMMAHA 180

181 MNNEYPDSCAVLYRRHGYVWGETWEKAKTMCBCYDYLFDIAVSMKVKGLPQLPVGENG 240
Qy 181 MNNEYPDSCAVLYRRHGYVWGETWEKAKTMCBCYDYLFDIAVSMKVKGLPQLPVGENG 240
Db 181 MNNEYPDSCAVLYRRHGYVWGETWEKAKTMCBCYDYLFDIAVSMKVKGLPQLPVGENG 240

241 IV 242
Db 241 IV 242

RESULT 2
US-10-720-381-2
; Sequence 2, Application US/10220381
; Publication No. US2003020430A1.
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: TANG, Y. Tom
; APPLICANT: LU, Duying Aina M.
; APPLICANT: BANDMAN, Olga
; APPLICANT: YUE, Harry
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: LAL, Preti
; APPLICANT: BURFORD, Neil
; APPLICANT: BAUGHN, Mariah R.
; TITLE OF INVENTION: HUMAN ENZYME MOLECULES
; FILE REFERENCE: PF-0763.PCT
; CURRENT APPLICATION NUMBER: US/10/220,381
; CURRENT FILING DATE: 2001-03-01
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PERL Program
; SEQ ID NO 2
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20030207430A1 2116390CDD1

US-10-220-381-2

Query Match 98.9%; Score 1307; DB 14; Length 242;
Best Local Similarity 99.2%; Pred. No. 1..7e-127;
Matches 240; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MSGCDAGEGDCSRRCGAQDKEHPRYLIPELCKQFYHLGWTGTCGGISLKHGDEIYIAP 60
Db 1 MSGCDAREGDCSRRCGAQDKEHPRYLIPELCKQFYHLGWTGTCGGISLKHGDEIYIAP 60

61 SGVQKERIOPEDMFVCDINEKDISGPSKLUKKSKQCTPLFMNAYTMRGAGAVIHTHNSKA 120
Db 61 SGVQKERIOPEDMFVCDINEKDISGPSKLUKKSKQCTPLFMNAYTMRGAGAVIHTHNSKA 120

121 AVMATLLPGREPKITHQEMIKIGKCTSGGYYRYDDMLVPIENTPEEKGLKDRMMAHA 180
Db 121 AVMATLLPGREPKITHQEMIKIGKCTSGGYYRYDDMLVPIENTPEEKGLKDRMMAHA 180

181 MNNEYPDSCAVLYRRHGYVWGETWEKAKTMCBCYDYLFDIAVSMKVKGLPQLPVGENG 240
Qy 181 MNNEYPDSCAVLYRRHGYVWGETWEKAKTMCBCYDYLFDIAVSMKVKGLPQLPVGENG 240
Db 181 MNNEYPDSCAVLYRRHGYVWGETWEKAKTMCBCYDYLFDIAVSMKVKGLPQLPVGENG 240

241 IV 242
Db 241 IV 242

RESULT 4
US-10-381-710-2
; Sequence 2, Application US/10381710
; Publication No. US20040052789A1
; GENERAL INFORMATION:
; APPLICANT: SHA, Shiken et al.
; TITLE OF INVENTION: NOVEL PROTEINS, GENES ENCODING THEM AND METHOD OF USING
; FILE REFERENCE: 0230-0188P
; CURRENT APPLICATION NUMBER: US/10/381,710
; CURRENT FILING DATE: 2003-09-16
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 241
; TYPE: PPT
; ORGANISM: Mouse macrophage cell RAW 264.7

US-10-381-710-2

Query Match 93.8%; Score 1239; DB 15; Length 241;
Best Local Similarity 93.8%; Pred. No. 1..8e-120;
Matches 227; Conservative 9; Mismatches 5; Indels 1; Gaps 1

Qy 1 MSGCDAGEGDCSRRCGAQDKEHPRYLIPELCKQFYHLGWTGTCGGISLKHGDEIYIAP 60
Db 1 MSGCDAREGDCSRRCGAQDKEHPRYLIPELCKQFYHLGWTGTCGGISLKHGDEIYIAP 60

61 SGVQKERIOPEDMFVCDINEKDISGPSKLUKKSKQCTPLFMNAYTMRGAGAVIHTHNSKA 120
Db 61 SGVQKERIOPEDMFVCDINEKDISGPSKLUKKSKQCTPLFMNAYTMRGAGAVIHTHNSKA 120

121 AVMATLLPGREPKITHQEMIKIGKCTSGGYYRYDDMLVPIENTPEEKGLKDRMMAHA 180
Db 121 AVMATLLPGREPKITHQEMIKIGKCTSGGYYRYDDMLVPIENTPEEKGLKDRMMAHA 180

181 MNNEYPDSCAVLYRRHGYVWGETWEKAKTMCBCYDYLFDIAVSMKVKGLPQLPVGENG 240
Qy 181 MNNEYPDSCAVLYRRHGYVWGETWEKAKTMCBCYDYLFDIAVSMKVKGLPQLPVGENG 240
Db 181 MNNEYPDSCAVLYRRHGYVWGETWEKAKTMCBCYDYLFDIAVSMKVKGLPQLPVGENG 240

241 IV 242
Db 241 IV 242

RESULT 3
US-10-381-710-4
; Sequence 4, Application US/10381710
; Publication No. US20040052789A1
; GENERAL INFORMATION:
; APPLICANT: SHA, Shiken et al.
; TITLE OF INVENTION: NOVEL PROTEINS, GENES ENCODING THEM AND METHOD OF USING THE SAME
; FILE REFERENCE: 0230-0188P
; CURRENT APPLICATION NUMBER: US/10/381,710

FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_91484C.1.pep
US-10-437-963-195546

Query Match 43 4%; Score 573 5; DB 16; Length 529;
Best Local Similarity 46.8%; Pred. No. 1.4e-50;
Matches 123; Conservative 33; Mismatches 68; Indels 39; Gaps 7;

Qy 1 MSGCDAGEGDCSSRRCGAQDKEHPRY-----LIPELCKQFYHLGHNTGGG 49
Db 1 MACCGGERGE----GAATSEAYLEGEAVREARVELAETCRPHYQGQWVTTGTGSIT 54

Qy 50 LKHGDE-----IVTAPSGVQKERTQEDMFVCDINEK---DISGSPSKLKKSQC 97
Db 55 VKANDPAPLADQLIIMSPSGVQKERNVAEDMYVLSADGVKLSSPISKPWNPKPKCTDC 114

Qy 98 TPLFLNNAYTVERGAGAHTHSSKAAMVATLLPFG-REFKITHOEMIKIJKCTSGGYRYD 156
Db 115 APLFMKAYLMRGAGAHTSHGMIBTCATMLDGAKEFRTMIEMKIGK-----HGYR 168

Qy 157 DMLVPIVPIENTPEEKLKDORMAHANMNPDSCAVLYVRHGTYWGETWEKAKTMCECYD 216
Db 169 DELVVPPIENTPEYEYLTDSLAEAIAYAPKATAVLYRNHGTYVWGDSWINAKTQAECYH 228

Qy 217 LFDAIVSMKKVGLD--PSQLEV 236
Db 229 LFDAIKLYQLGIDWTTPERGBI 251

RESULT 7
US-10-424-599-157170

Sequence 157170, Application US/104244599
Publication No. US20040331072A1

GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovacic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223) B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 157170

TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_112946C.1.pep
US-10-424-599-157170

Query Match 42 6%; Score 563; DB 15; Length 256;
Best Local Similarity 51.3%; Pred. No. 6.4e-50;
Matches 117; Conservative 31; Mismatches 58; Indels 22; Gaps 7;

Qy 25 RYLIPELCKQFYHLGHNTGGGSLK-HGDE-----IVTAPSGVQKERTQEDMFVC 76
Db 26 RILISSELCRPHYSLGWVSGTGTGSITIKHODISKPHQILUMSPGVQKERMEPDNYVL 85

Qy 77 DINEDISGSPS---KCLKKSQTPLFMMAYTMRGAGAHTHSSKAAVNATLFF-GR 131
Db 86 SHTGGSVLSASPSPKPVPHKPPRCSDCGLPFMKAYEMCDAGAVTHSHGIESCLVMLNPLAK 145

Qy 132 EFKITHOEMIKIJKCTSGGYRYDMDLVPIENTPEEKGLKDORMAHANNEYPDSCAVL 191
Db 146 EFKITHAMEMIKI--GHGY---DELVIPIENTAYEYELTESLAKAIEAYPKTAVL 199

Qy 192 VRRHGYWGETWEKAKTMCECYDLFIAVSMKKVGLD--PSQLPV 236
Db 200 VRNHGTYIWGDWSWIASRTOAECYHJFDAIKLHQOLDWSSTPNHVPI 247

RESULT 6
US-10-437-963-195546

Sequence 195546, Application US/10437963
Publication No. US20040123343A1

GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovacic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping

TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53221) B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 195546
LENGTH: 529
TYPE: PRT
ORGANISM: Oryza sativa

RESULT 8
 US-10-425-115-233963
 ; Sequence 253963, Application US/10425115
 ; Publication No. US20040214272A1
 ; GENERAL INFORMATION:
 ; APPLICANT: La Rosa, Thomas J.
 ; APPLICANT: Kovacic, David K.
 ; APPLICANT: Zhou, Yihua
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
 ; TITLE OF INVENTION: Plants
 ; CURRENT APPLICATION NUMBER: US/10/425,115
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 369326
 ; SEQ ID NO: 253963
 ; LENGTH: 517
 ; TYPE: PRT
 ; ORGANISM: Zea mays
 ; OTHER INFORMATION: Clone ID: MRT4577_163196C.1.pep
 ; US-10-425-115-233963

Query Match 42.6%; Score 563; DB 15; Length 524;
 Best Local Similarity 47.0%; Pred. No. 1.7e-49;
 Matches 116; Conservative 31; Mismatches 68; Indels 34; Gaps 6;

Qy 2 SGCDAGEGDCCSRQGAQDKE-----HPRYLIPLEPKTGYHGWVTTGGGTSIHK 52
 Db 11 SGCS----CEAAVGAMASEAYLEGAPVREARELVAELCRHFYAQGMWTTGGGTSIHKV 64
 Qy 53 GDE-----IYIAPSQYKERIOPEDMFVCDINEKDIDSGPS---PSKLUKKSQCTPL 100
 Db 65 NDPTPLADRLIVMSPGIVKERNMADGVKULSAPVAKPWNPKPCKTDCAPL 124
 Qy 101 FMNAYTMRGAGAVIITHSKAVMATLFFPG-REFKITHDEMIKGIKCTSGGYRYDDML 159
 Db 125 FMKAYLMRGAGAVIHSHGIECTIAMLIPOAKEFRVTHMEMIGKG-----HGYDEL 178
 Qy 160 VPIIPIENTPEEKGLKDRMAHMNEYPDSCAVLYRHHGTYWGETWEKATMCECYDLED 219
 Db 179 VPIIPIENTPEXYELTDLSLESEAIAAYPKATAVLVRNHHGTYWGESWINAKTQAECYHLLD 238
 Qy 220 IAVSMRKVGLD 230
 Db 239 ACIKLYQLGID 249

RESULT 10
 US-10-425-114-651135
 ; Sequence 651135, Application US/10425114
 ; Publication No. US2004034888A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Jingdong
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Kovacic, David K.
 ; APPLICANT: Screen, Steven E
 ; APPLICANT: Tabaska, Jack E
 ; APPLICANT: Cao, Yongwei
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
 ; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 ; FILE REFERENCE: 38-21(53313)B
 ; CURRENT APPLICATION NUMBER: US/10/425,114
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 73128
 ; SEQ ID NO: 65135
 ; LENGTH: 497
 ; TYPE: PRT
 ; ORGANISM: Zea mays
 ; FEATURE: OTHER INFORMATION: Clone ID: UC-ZMFLMO17103D03_FLI.pep
 ; US-10-425-114-651135

Query Match 42.0%; Score 555; DB 15; Length 497;
 Best Local Similarity 50.4%; Pred. No. 1.1e-48;
 Matches 114; Conservative 32; Mismatches 61; Indels 20; Gaps 5;

Qy 17 GADKEHPYLIPLEPKTGYHGWVTTGGGTSIHKDE-----IYIAPSQYKERI 68
 Db 3 GAPVRE ARELVAELCRHFYAQGMWTTGGGTSIHKVNDPAVLDRLLIMSPGVQKERM 61
 Qy 69 OPEDMFVCDINEKDIDSGPS---PSKLUKKSQCTPLFMINAYTMRGAGAVIHTSKAAYNA 124
 Db 62 VAEDMYTMADGVKULSAPVAKPWNPKPCKTDCAPLFMKAYLMRGAVIHSHGGETCIA 121
 Qy 125 TLFFPG-REFKITHDEMIKGIKCTSGGYRYDDMLVPILENTPPEKGLKDRMAHMNE 183
 Db 122 TMLFFPGAKLIPLEPKTGYHGWVTTGGGTSIHKDE-----HGYDELVPILENTPPEYELTDLSRAIAA 175
 Qy 184 YPDSCAVLYRHHGTYWGETWEKATMCECYDMLFDIAVSMKKVGLD 230
 Db 176 YPKATAVLVRNHHGTYWGESWINAKTQAECYHLLDACKLYQLGID 222

RESULT 11
 US-10-767-701-45914

OTHER INFORMATION: Zea mays
 ; OTHER INFORMATION: Clone ID: LIB3060-104-F8_FLI.pep
 ; OTHER INFORMATION: Zea mays
 ; OTHER INFORMATION: Clone ID: LIB3060-104-F8_FLI.pep
 ; OTHER INFORMATION: Zea mays
 ; OTHER INFORMATION: Zea mays

Sequence 45914, Application US/10767701
 GENERAL INFORMATION:
 Publication No. US20040172684A1
 APPLICANT: Kovacic, David K.
 APPLICANT: Zhou, Yihua
 APPLICANT: Cao, Yongwei
 TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With Plants and Uses Thereof For Plant Improvement
 FILE REFERENCE: 38-21(5353)B
 CURRENT FILING DATE: 2004-01-29
 NUMBER OF SEQ ID NOS: 63128
 SEQ ID NO: 45914
 LENGTH: 517
 TYPE: PRT
 ORGANISM: Sorghum bicolor
 FEATURE: OTHER INFORMATION: Clone ID: SORBI-28MAY03-C2601_1.pep
 us-10-767-701-45914

Query Match 41.8%; Score 553; DB 16; Length 517;
 Best Local Similarity 46.1%; Pred. No. 1.8e-18;
 Matches 117; Conservative 34; Mismatches 71; Indels 32; Gaps 7;

Qy 9 GDC-CSRGQAQDEK-----HPRYLIPFKLCKPFLGKMTGTGGGSLKHGDDE--- 55
 Db 4 GGCSCCAAVGATASEAVLEGEPVREARELVAELCRHYAQGRVTTGGSITVKNDPAV 63
 Qy 56 -----IYIAPSGVYQKERIOPEDMFVCDINEKDGSPS----PSKKLKKSQCTPLFMNAYT 106
 Db 6 4 LADRLLWSPSGVQKERNAEPMYNAADGKVLSAPVAKPWNPKPCKTCAPLFMKAYL 123
 Qy 107 MRGAGAVIINTHSSKAANNATLPLPG-RFKIKTHQEMKGKIKCTSGGYYRYDDMLVPIIE 165
 Db 124 MRGAGAVIINTHSGMETCATMLNPGEKFRRTHMEMIKIG-----HGVRDELIVPIE 177
 Qy 166 NTPEEKKGOKDRMAHANNEYPDSCAVLVRHGVYVWGETWEAKTMCEBCYDYLFDIAVSMK 225
 Db 178 NTPYEYELTDISSEATIAYAPKATAVLYRNHGYIWGDSWINAKTQEAECHYLLDACYL 237
 Qy 226 KVGLD---PSQLPV 236
 Db 238 QLGIDWTPERHGP1 251

RESULT 12
 US-10-424-599-273717
 Sequence 273717, Application US/10424599
 GENERAL INFORMATION:
 Publication No. US2004031072A1
 APPLICANT: La Rosa, Thomas J.
 APPLICANT: Kovacic, David K.
 APPLICANT: Zhou, Yihua
 APPLICANT: Cao, Yongwei
 TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With Plants and Uses Thereof For Plant Improvement
 FILE REFERENCE: 38-21(5322)B
 CURRENT FILING DATE: 2003-04-28
 NUMBER OF SEQ ID NOS: 285684
 SEQ ID NO: 273717
 LENGTH: 522
 TYPE: PRT
 FEATURE: Glycine max
 OTHER INFORMATION: Clone ID: PAT_MRT13847_89188C.1.pep
 us-10-424-599-273717

Query Match 41.5%; Score 549; DB 15; Length 522;
 Best Local Similarity 51.3%; Pred. No. 4.9e-18;
 Matches 117; Conservative 29; Mismatches 60; Indels 22; Gaps 7;

Qy 25 RYLIPELKQFYHLGWTGTTGGGISLK-HGDB-----IYIAPSGVYQKERIOPEDMFVC 76
 Db 47 RALMAELCRHFYTLLGWTGTTGGGISLKHHDDSIIPRQQQLILMAPSGVYQKERMEPDMDYVL 106
 Qy 77 DINEKDISGPSPS----KKURKKSQCTPLFMNAYTMRGAGAVIINTHSSKAANNATLPLFMN 131
 Db 107 SHSGSVLISAPPKWPWKPPKCSDDPLFKAYEMDAAVPHSHGTECLVTMNPLSK 166
 Qy 132 EFKIKTHQEMKGKIKCTSGGYYRYDDMLVPIENTPEEKLGKDRMAHANNEYPDSCAVL 191
 Db 167 EFRITHMEMIKIGK-----GHGVY---DELWVPIENTAYEQLTESFAKATEDPKATAV 220
 Qy 192 VRRHGVYVWGETWEAKTMCEBCYDYLFDIAVSMKVGLD---PSQLPV 236
 Db 221 VRNHGVFVWGDWSWISAKTQSECYHLLFDAALKLKHQMGLDWSTPNHGP1 268

RESULT 14
 US-10-425-115-253964
 Sequence 253964, Application US/10425115
 Publication No. US20040214272A1
 GENERAL INFORMATION:
 APPLICANT: La Rosa, Thomas J.
 APPLICANT: Kovacic, David K.
 APPLICANT: Zhou, Yihua
 APPLICANT: Cao, Yongwei
 TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With Plants

Qy 25 RYLIPELKQFYHLGWTGTTGGGISLK-HGDB-----IYIAPSGVYQKERIOPEDMFVC 76

FILE REFERENCE: 38-21 (53222) B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO: 594
; LENGTH: 594
; TYPE: PRT
; FEATURE: Zea mays
; OTHER INFORMATION: Clone ID: MRT4577_163197C.1.pep
; US-10-425-115-253964

Query Match Score 514.5; DB 17; Length 594;
Best Local Similarity 36.0%; Pred. No. 2.3e-44;
Matches 118; Conservative 31; Mismatches 68; Indels 111; Gaps 7;

Qy 2 SGCDAGBCDCCSRRCGAQDE-----HPRYLPELCKOFHGLWTGTCGGISLK 52
Db 4 SGCS-----CEARVAMASEAYLEGAPVREARELYAELCRHFAQGWTGTGSITRYK 57

Qy 53 GDE-----IYIAPSQVKERIOPEDMFCDINEKDIDSGPS---PSKLLKKSQCTFL 100
Db 58 NDPTVPLADRILWSPSCVQKERMVADMYNAADGKVLSAPVAKPWNPKPKCTDCAPL 117

Qy 101 FMNAYTMRCAGAVTHTSKAAVMATLFLPG-REFKITHQEINTKGITKKCTSGGYRYDDML 159
Db 118 FMKAYLMRAGAVIHSQGETCATMILIPGAKEFRTHMEMIRGIG-----HGYHDEL 171

Qy 160 VVPINENTPEEKGLKDRMAHANNEYPDSCAVLYRHHGVYNGBTWEKAUTM----- 210
Db 172 VVIPINENTPEEYELTDSSLSEIAAYPKATAVLVRNHGIVYNGBESWINAKTOACGFRDXQ 231

Qy 211 ----- 210

Db 232 IKDFIWMTLKPFELDHASFRKNTMMLYHIFMGSLLILQSFTVIIIRTDLVLAGGINGRNS 291

Qy 211 -----CECYDYLFDIAVSMKVGLD 230
Db 292 ITPAFCREAECHYHILLDACKLYQGID 319

RESULT 15
US-10-425-114-61505
; Sequence 61505, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; SEQ ID NO: 61505
; LENGTH: 459
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB143-005-F3_FLI_pep
; US-10-425-114-61505

Query Match Score 467.5; DB 15; Length 459;
Best Local Similarity 51.7%; Pred. No. 1.e-39;
Matches 93; Conservative 27; Mismatches 49; Indels 11; Gaps 3;

Qy 56 IYIAPSQVKERIOPEDMFCDINEKDIDSGPS---PSKLLKKSQCTFLNAYTMRGAG 111
Db 11 IVMSPSGVQKERMVADMYNAADGKVLSAPVAKPWNPKPKCTDCAPLFRKAYLMRGAG 70